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John Haddy James

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  Bugnion, J.-P. Lésions nouvelles du poignet, 1951, 703.
  Bulletin of the Hospital for Joint Diseases, volume in tribute to Dr Henry L. Jaffe, 1951, 330.
  Casagrande, P. A., and Frost, H. M., Jun. Fundamentals of clinical orthopaedics, 1953, 511.
  Charnley, J. Compression arthrodesis, 1953, 697.
  Cronholm, B. Phantom limbs in amputees, 1951, 332.
  Dunsdon, M. I. The educability of cerebral palsied children, 1952, 335.
  Forestier, J., Jacqueline, F., and Rotes-Querol, J. La spondylarthrite ankylosante, 1951, 165.
  Frantzell, A. Soft tissue radiography, 1951, 513.

Book Reviews (*continued*):
Frykholm, R. Cervical nerve root compression resulting from disc degeneration and root-sleeve fibrosis, 1951, 166.
Hart, V. L. Congenital dysplasia of hip joint and sequelae, 1952, 160.
Hass, J. Congenital dislocation of hip, 1951, 161.
Holden, W. D. Acute peripheral arterial occlusion, 1952, 700.
Howorth, M. B. Text-book of orthopedics, 1952, 157.
Kendall, H. O., and Boynton, D. A. Posture and pain, 1952, 701.
Lake, N. C. The foot, 4th edition, 1952, 337.
Lange, M. Orthopadische-chirurgische operationslehre, 1951, 330.
Law, W. A. Osteoarthritis of the hip, 1952, 334.
Levison, H. Dystrophia musculorum progressiva, 1951, 331.
Lewin, P. The knee and related structures, 1952, 334.
Lichtenstein, L. Bone tumors, 1952, 159.
Lowman, C. L., and Roen, S. G. Therapeutic use of pools and tanks, 1952, 704.
Marneffe, R. de. Recherches morphologiques et expérimentales sur la vascularisation osseuse, 1951, 331.
Mayfield, F. H. Causalgia, 1951, 165.
Ministry of Pensions Standing Advisory Committee on Artificial Limbs, 4th and 5th Reports, 1951, 512.
Mitchell, G. A. G. Anatomy of the autonomic nervous system, 1953, 511.
Moseley, H. F. Ruptures of the rotator cuff, 1952, 331.
Poliomyelitis, 1952, 699.
Rank, B. K., and Wakefield, A. R. Surgery of repair as applied to hand injuries, 1953, 697.
Rice, C. O. The calculation of industrial disabilities of the extremities, 1952, 703.
Rodahl, K. Hypervitaminosis A, 1950, 332.
Rodahl, K. The toxic effect of polar bear liver, 1949, 332.
Rodahl, K. Vitamin sources in Arctic regions, 1949, 332.
Romanis, W. H. C., and Mitchiner, P. H. The science and practice of surgery, 9th edition, 1952, 166.
Rose and Carless' Manual of surgery, 18th edition, 1952, 167.
Roth, H. Die Konservierung von Knochengewebe für Transplantationen, 1952, 700.
Russell, W. R. Poliomyelitis, 1952, 510.
Schinz, H. R., *et al.* Roentgen diagnostics. Vol. I, 1951, 513; Vol. II, 1952, 704.
Shands, A. R., Jun., and Raney, R. B. Handbook of orthopaedic surgery, 4th edition, 1952, 336.
Social Welfare Review, Oct. 1952, 336.
Steindler, A. Postgraduate lectures on orthopaedic diagnosis and indications, Vol. III, Section A, 1952, 164.
Sury, B. Rheumatoid arthritis in children, 1952, 514.
Thornton, J. L. John Abernethy, 1953, 706.
Watson-Jones, Sir R. Fractures and joint injuries, 4th edition, Vol. I, 1952, 162.
Welander, L. Myopathia distalis tarda hereditaria, 1951, 513.
Werthemann, A. Die Entwicklungsstörungen der Extremitaten, 1952, 333.
Willis, R. A. The spread of tumours in the human body, 2nd edition, 1952, 337.
Wilson, G. S., Blacklock, J. W. S., and Reilly, L. V. Non-pulmonary tuberculosis of bovine origin in Great Britain and Northern Ireland, 1952, 702.
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